I Claim:

1. In a semiconductor memory device having a memory area with storage elements, selectable access line devices respectively connected to the storage elements, and a sense-amplifier device with a potential-sensing connection and a current-supply connection, a selection device comprising:

switching devices each associated with and connected to a respective one of the access line devices for accessing the storage elements in the memory area, each of said switching devices:

controllably connecting, upon selection, the respective associated access line device to the potential-sensing connection for detecting an electrical potential on the respective access line device and to the current-supply connection for supplying a compensating current to the respective access line device; and

having first and second switching elements and, during operation, said first switching element connecting the associated access line device to the potential-sensing connection and said second switching element connecting the associated access line device to the current-supply connection.

- 2. The selection device according to claim 1, wherein said first and second switching elements are respectively connected in parallel with one another.
- 3. The selection device according to claim 1, wherein said first and second switching elements each produce two switching states.
- 4. The selection device according to claim 3, wherein said two switching states include a connected switching state and a disconnected switching state.
- 5. The selection device according to claim 3, wherein said two switching states include a contact-making switching state and an isolating switching state.
- 6. The selection device according to claim 3, wherein, in a first of said two switching states, said first switching element makes a comparatively low-impedance contact.
- 7. The selection device according to claim 3, wherein, in a first of said two switching states, said first switching element makes a comparatively low-impedance contact to the potential-sensing connection on the sense-amplifier device.

- 8. The selection device according to claim 3, wherein, in a first of said two switching states, said first switching element makes a low-impedance contact as compared to a contact of said second switching element.
- 9. The selection device according to claim 3, wherein, in a first of said two switching states, said first switching element makes a low-impedance contact to the potential-sensing connection as compared to a contact of said second switching element.
- 10. The selection device according to claim 1, wherein said first and second switching elements are transistor devices.
- 11. The selection device according to claim 1, wherein said first and second switching elements are MOSFETs.
- 12. The selection device according to claim 10, wherein respective drain regions of said transistor device are connected to the respectively connected one of the access line devices.
- 13. The selection device according to claim 12, wherein a source region of said transistor devices are each respectively connected to one of the respective potential connection and

the respective current-supply connection on the associated sense-amplifier device.

- 14. The selection device according to claim 10, wherein a source region of said transistor devices are each respectively connected to one of the respective potential connection and the respective current-supply connection on the associated sense-amplifier device.
- 15. The selection device according to claim 10, wherein:

the sense-amplifier device is a single common sense-amplifier device;

said first and second switching elements have output connections; and

a common line device respectively connects said output connections to said single sense-amplifier device.

16. The selection device according to claim 10, wherein:

the sense-amplifier device is a single common sense-amplifier device;

said first and second switching elements have source regions; and

a common line device respectively connects said source regions to said single sense-amplifier device.

17. The selection device according to claim 1, wherein:

the access line devices are bit line devices; and

said switching devices are each associated with and connected to a respective one of the bit line devices.

18. In a semiconductor memory device having a memory area with storage elements, selectable access line devices including bit line devices respectively connected to the storage elements, and a sense-amplifier device with a potential-sensing connection and a current-supply connection, a selection device comprising:

switching devices each associated with and connected to a respective one of the bit line devices for accessing the storage elements in the memory area, each of said switching devices:

controllably connecting, upon selection, the respective associated bit line device to the potential-sensing connection for detecting an electrical potential on the respective bit line device and to the current-supply connection for supplying a compensating current to the respective bit line device; and

having first and second switching elements and, during operation, said first switching element connecting the associated bit line device to the potential-sensing connection and said second switching element connecting the associated bit line device to the current-supply connection.

19. A semiconductor memory device, comprising:

a memory area having storage elements;

selectable access line devices respectively connected to said storage elements;

a sense-amplifier device having a potential-sensing connection and a current-supply connection, said sense-amplifier device connected to said access line devices; and

a selection device having switching devices each associated with and connected to a respective one of said access line devices for accessing the storage elements in the memory area, each of said switching devices:

controllably connecting, upon selection, the respective associated access line device to the potential-sensing connection for detecting an electrical potential on the respective access line device and to the current-supply connection for supplying a compensating current to the respective access line device; and

having first and second switching elements and, during operation, said first switching element connecting the associated access line device to the potential-sensing connection and said second switching element connecting the associated access line device to the current-supply connection.